

ABSTRACT

A discharge electrode comprising a material having solid lubricant effect, such as molybdenum, is used to generate discharge in a pulse form between the discharge electrode and a workpiece, the surface of which is to be treated, in working liquid containing carbon components, such as water. Material consumed or melted from the discharge electrode, generated because of the electric discharge energy based on the pulse form discharge, gets adhered to and deposited onto a surface of the workpiece thereby forming a coat having lubricant effect on the surface of the workpiece.